

## EAST Search History

| Ref # | Hits | Search Query  | DBs   | Default Operator | Plurals | Time Stamp       |
|-------|------|---|---|------------------|---------|------------------|
| L1    | 1    | KAWAMURA-OSAMU.in.<br>OSAKA-MASATAKA.in.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND              | ON      | 2007/05/13 16:14 |
| L3    | 303  | 380/200.ccls.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND              | ON      | 2007/05/13 16:13 |
| L4    | 11   | (US-20010021253-\$ or<br>US-20020174401-\$).did. or<br>(US-6347143-\$ or US-6307940-\$ or<br>US-5796836-\$ or US-7079752-\$ or<br>US-6865643-\$ or US-3784743-\$ or<br>US-5802374-\$).did. or<br>(US-5237615-\$ or EP-615361-\$).did. | US-PGPUB;<br>USPAT;<br>DERWENT                                    | AND              | ON      | 2007/05/13 16:14 |
| L5    | 11   | I4 @ad<"20020827"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND              | ON      | 2007/05/13 17:23 |
| L6    | 226  | KAWAMURA-OSAMU.in.<br>OSAKA-MASATAKA.in.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2007/05/13 16:14 |
| L7    | 55   | (Parallel with (Path\$2 or Route\$2 or<br>Data or (Steam\$2))) Input\$4<br>Output\$4 Key\$4 \$4Control\$4<br>(\$4crypt\$5 or \$4cipher\$5 or<br>\$4scrambl\$5)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | SAME             | ON      | 2007/05/13 17:38 |
| L8    | 36   | I7 @ad<"20020827"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND              | ON      | 2007/05/13 17:41 |
| L9    | 107  | (Parallel with Input\$2) (Parallel with<br>Output\$4) (Parallel with Key\$4)<br>\$4Control\$4 (Parallel with<br>(\$4crypt\$5 or \$4cipher\$5 or<br>\$4scrambl\$5))  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND              | ON      | 2007/05/13 17:40 |

## EAST Search History

|     |     |  |   |     |    |                  |
|-----|-----|--|---|-----|----|------------------|
| L10 | 107 | (Parallel with Input) (Parallel with Output\$4) (Parallel with Key\$4) \$4Control\$4 (Parallel with (\$4crypt\$5 or \$4cipher\$5 or \$4scrambl\$5))  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2007/05/13 17:59 |
| L11 | 80  | l10 @ad<"20020827"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2007/05/13 18:00 |
| L12 | 13  | (US-20010021253-\$ or US-20020174401-\$ or US-20020031219-\$).did. or (US-6347143-\$ or US-6307940-\$ or US-5796836-\$ or US-7079752-\$ or US-6865643-\$ or US-3784743-\$ or US-5802374-\$ or US-4227253-\$). did. or (US-5237615-\$ or EP-615361-\$).did. | US-PGPUB;<br>USPAT;<br>DERWENT                                    | AND | ON | 2007/05/13 17:54 |
| L13 | 5   | (Parallel with Input) (Parallel with Output\$4) (Parallel with Key\$4) (Parallel with (\$4crypt\$5 or \$4cipher\$5 or \$4scrambl\$5)).ti.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2007/05/13 18:02 |
| L14 | 3   | l13 @ad<"20020827"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2007/05/13 18:03 |
| L15 | 24  | (Parallel with Input) (Parallel with Output\$4) (Parallel with Key\$4) (Parallel with (\$4crypt\$5 or \$4cipher\$5 or \$4scrambl\$5)).ab.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2007/05/13 18:05 |
| L16 | 15  | l15 @ad<"20020827"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2007/05/13 18:06 |
| L17 | 16  | (Parallel same Input) (Parallel same Output\$4) (Parallel same Key\$4) (Parallel with (\$4crypt\$5 or \$4cipher\$5 or \$4scrambl\$5)).ti.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2007/05/13 18:08 |

## EAST Search History

|     |     |  |   |      |    |                  |
|-----|-----|--|---|------|----|------------------|
| L18 | 9   | I17 @ad<"20020827"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND  | ON | 2007/05/13 18:09 |
| L19 | 197 | (Parallel (\$4crypt\$5 or \$4cipher\$5 or \$4scrambl\$5)).ti.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND  | ON | 2007/05/13 18:32 |
| L20 | 156 | I19 @ad<"20020827"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND  | ON | 2007/05/13 18:33 |
| L21 | 71  | (((\$4crypt\$5 or \$4cipher\$5 or \$4scrambl\$5)).ti. ((Parallel with (Path\$2 or Route\$2 or Data or (Steam\$2)))same Input\$4 same Key\$4) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND  | ON | 2007/05/13 18:55 |
| L22 | 47  | I21 @ad<"20020827"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND  | ON | 2007/05/13 18:56 |
| L23 | 194 | (((\$4crypt\$5 or \$4cipher\$5 or \$4scrambl\$5)) ((Parallel with (Path\$2 or Route\$2 or Data or (Steam\$2)))same Input\$4 same Key\$4)     | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | SAME | ON | 2007/05/13 18:55 |
| L24 | 124 | I23 @ad<"20020827"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND  | ON | 2007/05/13 19:33 |

## EAST Search History

|     |    |   |   |     |    |                  |
|-----|----|---|---|-----|----|------------------|
| L25 | 18 | (US-20010021253-\$ or<br>US-20020174401-\$ or<br>US-20020031219-\$ or<br>US-20030202658-\$ or<br>US-20020048364-\$).did. or<br>(US-6347143-\$ or US-6307940-\$ or<br>US-5796836-\$ or US-7079752-\$ or<br>US-6865643-\$ or US-3784743-\$ or<br>US-5802374-\$ or US-4227253-\$ or<br>US-6973187-\$ or US-6513108-\$).<br>did. or (US-5237615-\$ or<br>EP-615361-\$ or<br>US-20020048364-\$).did. | US-PGPUB;<br>USPAT;<br>DERWENT                                    | AND | ON | 2007/05/13 19:33 |
| L26 | 18 | l25 @ad<"20020827"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2007/05/13 19:33 |
| L27 | 16 | (US-20020174401-\$ or<br>US-20020031219-\$ or<br>US-20030202658-\$ or<br>US-20020048364-\$).did. or<br>(US-6347143-\$ or US-6307940-\$ or<br>US-5796836-\$ or US-7079752-\$ or<br>US-6865643-\$ or US-3784743-\$ or<br>US-5802374-\$ or US-4227253-\$ or<br>US-6973187-\$ or US-6513108-\$).<br>did. or (EP-615361-\$ or<br>US-20020048364-\$).did.   | US-PGPUB;<br>USPAT;<br>DERWENT                                    | AND | ON | 2007/05/13 19:47 |
| L28 | 1  | "5796836".pn. parall\$4 key\$2<br>input\$2 output\$2  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2007/05/13 20:16 |
| L29 | 1  | 10/634507   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2007/05/13 21:10 |
| L30 | 1  | l29 stream  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2007/05/13 21:12 |

## EAST Search History

|     |       |   |   |     |    |                  |
|-----|-------|---|---|-----|----|------------------|
| L31 | 0     | I29 video audio   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2007/05/13 21:12 |
| L32 | 0     | I29 (video\$3 audio\$3)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2007/05/13 21:19 |
| L33 | 1     | I29 televi\$6   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2007/05/13 21:14 |
| L34 | 1     | I29 TV  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2007/05/13 21:19 |
| L35 | 2     | I27 (TV or (video\$3 audio\$3) or<br>televi\$6)                   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2007/05/13 21:20 |
| S1  | 981   | (parallel\$3 stream\$3).ti.                                       | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2006/10/20 17:05 |
| S2  | 15400 | (parallel\$3 stream\$3).ab.                                       | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2006/10/20 17:05 |
| S3  | 15661 | ( (parallel\$3 stream\$3).ab. or<br>(parallel\$3 stream\$3).ti. ) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2006/10/20 17:06 |

## EAST Search History

|    |    |   |   |     |    |                  |
|----|----|---|---|-----|----|------------------|
| S4 | 56 | ( (parallel\$3 stream\$3).ab. or (parallel\$3 stream\$3).ti. ) (Encrypt\$5 or encod\$5 or encipher\$5 or cipher\$5 or scrambl\$5 or crypto\$6) (decrypt\$6 or decod\$6 or decipher\$5 or descrambl\$5 or crypto\$6 ) ((symmetr\$5 or privat\$5 or asymmetr\$5 or publ\$5 or share\$5 or Encrypt\$5 or encod\$5 or encipher\$5 or cipher\$5 or scrambl\$5 or decrypt\$6 or decod\$6 or decipher\$5 or descrambl\$5 or recover\$3 or crypto\$6 or secur\$5) near2 key\$2) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2006/10/20 17:13 |
| S5 | 31 | S4 @ad<"20020827"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2007/05/13 16:14 |
| S6 | 42 | ( (parallel\$3 stream\$3).ab. or (parallel\$3 stream\$3).ti. ) (Encrypt\$5 or encipher\$5 or cipher\$5 or scrambl\$5 or crypto\$6) (decrypt\$6 or decipher\$5 or descrambl\$5 or crypto\$6 ) ((symmetr\$5 or privat\$5 or asymmetr\$5 or publ\$5 or share\$5 or Encrypt\$5 or encod\$5 or encipher\$5 or cipher\$5 or scrambl\$5 or decrypt\$6 or decod\$6 or decipher\$5 or descrambl\$5 or recover\$3 or crypto\$6 or secur\$5) near2 key\$2)                         | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2006/10/20 17:26 |
| S7 | 22 | S6 @ad<"20020827"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2006/10/20 17:13 |
| S8 | 0  | ( (parallel\$3 near3 stream\$3) ( (parallel\$3 near (Encrypt\$5 or encipher\$5 or cipher\$5 or scrambl\$5 or crypto\$6)) or (parallel\$3 near3 (decrypt\$6 or decipher\$5 or descrambl\$5 or crypto\$6 ) ) (parallel\$3 near3 key\$2) ).ti.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2006/10/20 17:29 |

## EAST Search History

|     |    |   |   |     |    |                  |
|-----|----|---|---|-----|----|------------------|
| S9  | 1  | ( (parallel\$3 near3 stream\$3) ( (parallel\$3 near (Encrypt\$5 or encipher\$5 or cipher\$5 or scrambl\$5 or crypto\$6)) or (parallel\$3 near3 (decrypt\$6 or decipher\$5 or descrambl\$5 or crypto\$6 )) ) (parallel\$3 near3 key\$2) ).ab.                                  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2006/10/20 17:30 |
| S10 | 1  | ( (parallel\$3 near3 stream\$3) (( (parallel\$3 near (Encrypt\$5 or encipher\$5 or cipher\$5 or scrambl\$5 or crypto\$6)) or (parallel\$3 near3 (decrypt\$6 or decipher\$5 or descrambl\$5 or crypto\$6 )) ) and (parallel\$3 near3 key\$2) ) ).ab.                           | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2006/10/20 17:31 |
| S11 | 6  | ( (parallel\$3 near3 stream\$3) (( (parallel\$3 near (Encrypt\$5 or encipher\$5 or cipher\$5 or scrambl\$5 or crypto\$6)) or (parallel\$3 near3 (decrypt\$6 or decipher\$5 or descrambl\$5 or crypto\$6 )) ) and (parallel\$3 near3 key\$2) ) )                               | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2006/10/20 17:33 |
| S12 | 3  | S11 @ad<"20020827"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2006/10/20 17:33 |
| S13 | 49 | ( (parallel\$3 with stream\$3) (( (parallel\$3 with(Encrypt\$5 or encipher\$5 or cipher\$5 or scrambl\$5 or crypto\$6)) or (parallel\$3 with (decrypt\$6 or decipher\$5 or descrambl\$5 or crypto\$6 )) ) (parallel\$3 with key\$2) ) )                                       | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2006/10/22 19:26 |
| S14 | 26 | S13 @ad<"20020827"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2006/10/22 19:28 |
| S15 | 27 | ( (parallel\$3).ti. or (parallel\$3).ab. ) ( (parallel\$3 same stream\$3 same (Encrypt\$5 or encipher\$5 or cipher\$5 or scrambl\$5 or crypto\$6)) or (parallel\$3 same stream\$3 same (decrypt\$6 or decipher\$5 or descrambl\$5 or crypto\$6 )) ) (parallel\$3 with key\$2) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2006/10/22 20:51 |

## EAST Search History

|     |     |   |   |     |    |                  |
|-----|-----|---|---|-----|----|------------------|
| S16 | 15  | S15 @ad<"20020827"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2006/10/23 12:08 |
| S17 | 112 | ((parallel\$3 key).ti. or (parallel\$3 key).ab. ) ( (parallel\$3 same (Encrypt\$5 or encipher\$5 or cipher\$5 or scrambl\$5 or crypto\$6)) or (parallel\$3 same (decrypt\$6 or decipher\$5 or descrambl\$5 or crypto\$6 )) ) (parallel\$3 with key\$2)                            | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2006/10/22 19:28 |
| S18 | 17  | ((parallel\$3 key\$2 stream\$2 ).ti. or (parallel\$3 key\$2 stream\$3).ab. ) ( (parallel\$3 same (Encrypt\$5 or encipher\$5 or cipher\$5 or scrambl\$5 or crypto\$6)) or (parallel\$3 same (decrypt\$6 or decipher\$5 or descrambl\$5 or crypto\$6 )) ) (parallel\$3 with key\$2) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2006/10/22 19:31 |
| S19 | 7   | S18 @ad<"20020827"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2006/10/22 19:32 |
| S20 | 11  | ((parallel\$3 key\$2 ).ti. or (parallel\$3 key\$2).ab. ) ( (multiplex\$3 same (Encrypt\$5 or encipher\$5 or cipher\$5 or scrambl\$5 or crypto\$6)) or (multiplex\$4 same (decrypt\$6 or decipher\$5 or descrambl\$5 or crypto\$6 )) ) (parallel\$3 with key\$2)                   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2006/10/22 19:46 |
| S21 | 6   | S20 @ad<"20020827"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2006/10/22 19:48 |
| S22 | 2   | (parallel\$3 key\$2 stream (Encrypt\$5 or encipher\$5 or cipher\$5 or scrambl\$5 or crypto\$6)).ti.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2006/10/22 19:48 |



## EAST Search History

|     |      |  |   |     |    |                  |
|-----|------|--|---|-----|----|------------------|
| S23 | 0    | S22 @ad<"20020827"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2006/10/22 19:48 |
| S24 | 27   | (parallel\$3 key\$2 stream (Encrypt\$5 or encipher\$5 or cipher\$5 or scrambl\$5 or crypto\$6)).ab.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2006/10/22 19:59 |
| S25 | 13   | S24 @ad<"20020827"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2006/10/22 20:00 |
| S26 | 12   | (US-20030044017-\$ or US-20010021253-\$).did. or (US-6298400-\$ or US-5802374-\$ or US-5642497-\$ or US-6307940-\$ or US-6347143-\$ or US-3925611-\$ or US-7079752-\$ or US-3784743-\$ or US-5796836-\$).did. or (JP-2001324925-\$).did. | US-PGPUB;<br>USPAT;<br>JPO  | AND | ON | 2006/10/22 19:49 |
| S27 | 5836 | "I13" not S26  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2006/10/22 19:49 |
| S28 | 5836 | S27 not S26  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2006/10/22 19:49 |
| S29 | 11   | S25 not S26  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2006/10/22 19:49 |
| S30 | 215  | ( (Multipl\$2 or Plural\$3 or Parallel\$3) key\$2 stream (Encrypt\$5 or encipher\$5 or cipher\$5 or scrambl\$5 or crypto\$6) ).ab.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2006/10/22 20:00 |

## EAST Search History

|     |    |   |   |     |    |                  |
|-----|----|---|---|-----|----|------------------|
| S31 | 2  | ( (Multipl\$2 or Plural\$3 or Parallel\$3) key\$2 stream (Encrypt\$5 or encipher\$5 or cipher\$5 or scrambl\$5 or crypto\$6) ).ti. ( (parallel\$3 same (Encrypt\$5 or encipher\$5 or cipher\$5 or scrambl\$5 or crypto\$6)) or (parallel\$3 same (decrypt\$6 or decipher\$5 or descrambl\$5 or crypto\$6 )) ) (parallel\$3 with key\$2) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2006/10/22 22:16 |
| S32 | 10 | ( (Multipl\$2 or Plural\$3 or Parallel\$3) key\$2 stream (Encrypt\$5 or encipher\$5 or cipher\$5 or scrambl\$5 or crypto\$6) ).ti.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2006/10/22 20:06 |
| S33 | 6  | S32 @ad<"20020827"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2006/10/22 20:06 |
| S34 | 34 | ( (Multipl\$2 or Plural\$3 or Parallel\$3) key\$2 stream (Encrypt\$5 or encipher\$5 or cipher\$5 or scrambl\$5 or crypto\$6) ).ab. ( (parallel\$3 same (Encrypt\$5 or encipher\$5 or cipher\$5 or scrambl\$5 or crypto\$6)) or (parallel\$3 same (decrypt\$6 or decipher\$5 or descrambl\$5 or crypto\$6 )) )                           | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2006/10/22 20:06 |
| S35 | 19 | S34 @ad<"20020827"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2006/10/22 20:06 |
| S36 | 15 | (US-20030044017-\$ or US-20010021253-\$).did. or (US-6298400-\$ or US-5802374-\$ or US-5642497-\$ or US-6307940-\$ or US-6347143-\$ or US-3925611-\$ or US-7079752-\$ or US-3784743-\$ or US-5796836-\$ or US-5440640-\$). did. or (JP-2001324925-\$).did. or (US-5237615-\$ or EP-615361-\$).did.                                      | US-PGPUB;<br>USPAT;<br>JPO;<br>DERWENT                            | AND | ON | 2006/10/22 20:07 |
| S37 | 15 | S35 not S36   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2006/10/22 20:07 |

## EAST Search History

|     |    |  |  |     |    |                  |
|-----|----|--|--|-----|----|------------------|
| S38 | 15 | (US-20030044017-\$ or US-20010021253-\$).did. or (US-6298400-\$ or US-5802374-\$ or US-5642497-\$ or US-6307940-\$ or US-6347143-\$ or US-3925611-\$ or US-7079752-\$ or US-3784743-\$ or US-5796836-\$ or US-5440640-\$). did. or (JP-2001324925-\$).did. or (US-5237615-\$ or EP-615361-\$).did. | US-PGPUB; USPAT; JPO; DERWENT                      | AND | ON | 2006/10/22 20:51 |
| S39 | 11 | S38 (parallel\$3 stream\$3 (Encrypt\$5 or encipher\$5 or cipher\$5 or scrambl\$5 or crypto\$6)) (parallel\$3 stream\$3 (decrypt\$6 or decipher\$5 or descrambl\$5 or crypto\$6 )) (parallel\$3 key\$2)   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2006/10/22 21:20 |
| S40 | 4  | S38 not S39  | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2006/10/22 21:00 |
| S41 | 9  | (US-20010021253-\$).did. or (US-3784743-\$ or US-5796836-\$ or US-6307940-\$ or US-6347143-\$ or US-7079752-\$ or US-5802374-\$). did. or (US-5237615-\$ or EP-615361-\$).did.   | US-PGPUB; USPAT; DERWENT                           | AND | ON | 2006/10/22 21:04 |
| S42 | 9  | (US-20010021253-\$).did. or (US-3784743-\$ or US-5796836-\$ or US-6307940-\$ or US-6347143-\$ or US-7079752-\$ or US-5802374-\$). did. or (US-5237615-\$ or EP-615361-\$).did.   | US-PGPUB; USPAT; DERWENT                           | AND | ON | 2006/10/22 21:04 |
| S43 | 6  | S42 (parallel\$3 stream\$3 (Encrypt\$5 or encipher\$5 or cipher\$5 or scrambl\$5 or crypto\$6)) (parallel\$3 stream\$3 (decrypt\$6 or decipher\$5 or descrambl\$5 or crypto\$6 )) (parallel\$3 key\$2)   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2006/10/22 21:20 |
| S44 | 3  | S42 not S43  | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2006/10/22 21:22 |
| S45 | 9  | (US-20010021253-\$).did. or (US-5796836-\$ or US-5802374-\$ or US-7079752-\$ or US-3784743-\$ or US-6347143-\$ or US-6307940-\$). did. or (EP-615361-\$ or US-5237615-\$).did.   | US-PGPUB; USPAT; DERWENT                           | AND | ON | 2006/10/22 22:16 |

## EAST Search History

|     |   |  |   |     |    |                  |
|-----|---|--|---|-----|----|------------------|
| S46 | 3 | (parallel\$3 near2 key\$2) S45   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2006/10/22 22:37 |
| S47 | 3 | S46 parallel\$3 key\$2   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2006/10/22 22:37 |
| S48 | 3 | S46 parallel\$3 key\$2 (Encrypt\$5 or encipher\$5 or cipher\$5 or scrambl\$5 or crypto\$6) (decrypt\$6 or decipher\$5 or descrambl\$5 or crypto\$6)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2006/10/22 22:39 |
| S49 | 1 | S46 parallel\$3 key\$2 (Encrypt\$5 or encipher\$5 or cipher\$5 or scrambl\$5 or crypto\$6) (decrypt\$6 or decipher\$5 or descrambl\$5 or crypto\$6) path   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2006/10/22 22:39 |
| S50 | 1 | S46 parallel\$3 key\$2 (Encrypt\$5 or encipher\$5 or cipher\$5 or scrambl\$5 or crypto\$6) (decrypt\$6 or decipher\$5 or descrambl\$5 or crypto\$6) path\$3 Unit\$3 data\$3 input\$3 output\$3 stream\$4 plural\$4 | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2006/10/22 22:43 |
| S51 | 1 | 10/634507  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2006/10/23 12:04 |
| S52 | 1 | S51 crossbar\$3  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2006/10/23 12:06 |
| S53 | 1 | S51 (crossbar\$3 near switch\$3)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2006/10/23 12:07 |

## EAST Search History

|     |      |  |   |     |    |                  |
|-----|------|--|---|-----|----|------------------|
| S54 | 7049 | (crossbar\$3 near3 switch\$3)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2006/10/23 12:07 |
| S55 | 4    | (crossbar\$3 near3 switch\$3) (<br>(parallel\$3 same (Encrypt\$5 or<br>encipher\$5 or cipher\$5 or scrambl\$5<br>or crypto\$6)) or (parallel\$3 same<br>(decrypt\$6 or decipher\$5 or<br>descrambl\$5 or crypto\$6 )) )<br>(parallel\$3 with key\$2) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2006/10/23 12:13 |
| S56 | 0    | S55 @ad<"20020827"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2006/10/23 12:13 |
| S57 | 6    | (crossbar\$3 near3 switch\$3) (<br>(parallel\$3 same (Encrypt\$5 or<br>encipher\$5 or cipher\$5 or scrambl\$5<br>or crypto\$6)) or (parallel\$3 same<br>(decrypt\$6 or decipher\$5 or<br>descrambl\$5 or crypto\$6 )) )<br>(parallel\$3 same key\$2) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2006/10/23 12:15 |
| S58 | 1    | S57 @ad<"20020827"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2006/10/23 12:18 |
| S59 | 356  | (crossbar\$3 near3 switch\$3) (<br>(parallel\$3 and (Encrypt\$5 or<br>encipher\$5 or cipher\$5 or scrambl\$5<br>or crypto\$6)) or (parallel\$3 and<br>(decrypt\$6 or decipher\$5 or<br>descrambl\$5 or crypto\$6 )) )<br>(parallel\$3 and key\$2)    | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2006/10/23 12:16 |
| S60 | 0    | (crossbar\$3 near3 switch\$3) (<br>(parallel\$3 and (Encrypt\$5 or<br>encipher\$5 or cipher\$5 or scrambl\$5<br>or crypto\$6)) or (parallel\$3 and<br>(decrypt\$6 or decipher\$5 or<br>descrambl\$5 or crypto\$6 )) )<br>(parallel\$3 wiht key\$2)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2006/10/23 12:16 |

## EAST Search History

|     |     |   |   |     |    |                  |
|-----|-----|---|---|-----|----|------------------|
| S61 | 137 | ((crossbar\$3 near3 switch\$3)same parallel\$3 ) ( (Encrypt\$5 or encipher\$5 or cipher\$5 or scrambl\$5 or crypto\$6) or (decrypt\$6 or decipher\$5 or descrambl\$5 or crypto\$6 ) ) (parallel\$3 same key\$2)         | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2006/10/23 12:18 |
| S62 | 3   | ((crossbar\$3 near3 switch\$3)same parallel\$3 same key\$2) ( (Encrypt\$5 or encipher\$5 or cipher\$5 or scrambl\$5 or crypto\$6) or (decrypt\$6 or decipher\$5 or descrambl\$5 or crypto\$6 ) )                        | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2006/10/23 12:19 |
| S63 | 1   | S62 @ad<"20020827"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2006/10/23 12:20 |
| S64 | 137 | ((crossbar\$3 near3 switch\$3)same parallel\$3 ) ( (Encrypt\$5 or encipher\$5 or cipher\$5 or scrambl\$5 or crypto\$6) or (decrypt\$6 or decipher\$5 or descrambl\$5 or crypto\$6 ) ) (parallel\$3 same key\$2)         | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2006/10/23 12:19 |
| S65 | 122 | ((crossbar\$3 near3 switch\$3) with parallel\$3 ) ( (Encrypt\$5 or encipher\$5 or cipher\$5 or scrambl\$5 or crypto\$6) or (decrypt\$6 or decipher\$5 or descrambl\$5 or crypto\$6 ) ) (parallel\$3 same key\$2)        | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2006/10/23 12:20 |
| S66 | 121 | ((crossbar\$3 near3 switch\$3) with parallel\$3 ) ( (Encrypt\$5 or encipher\$5 or cipher\$5 or scrambl\$5 or crypto\$6) or (decrypt\$6 or decipher\$5 or descrambl\$5 or crypto\$6 ) ) (parallel\$3 with key\$2)        | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2006/10/23 12:20 |
| S67 | 2   | ((crossbar\$3 near3 switch\$3) with parallel\$3 ) ( (Encrypt\$5 or encipher\$5 or cipher\$5 or scrambl\$5 or crypto\$6) or (decrypt\$6 or decipher\$5 or descrambl\$5 or crypto\$6 ) ) same (parallel\$3 with key\$2) ) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2006/10/23 12:21 |
| S68 | 0   | S67 @ad<"20020827"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2006/10/23 12:22 |

## EAST Search History

|     |     |   |   |     |    |                  |
|-----|-----|---|---|-----|----|------------------|
| S69 | 2   | ((crossbar\$3 near3 switch\$3) same parallel\$3 ) ( ( Encrypt\$5 or encipher\$5 or cipher\$5 or scrambl\$5 or crypto\$6) or (decrypt\$6 or decipher\$5 or descrambl\$5 or crypto\$6 ) ) same (parallel\$3 with key\$2) )  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2006/10/23 12:22 |
| S70 | 2   | ((crossbar\$3 near3 switch\$3) same parallel\$3 ) ( ( Encrypt\$5 or encipher\$5 or cipher\$5 or scrambl\$5 or crypto\$6) or (decrypt\$6 or decipher\$5 or descrambl\$5 or crypto\$6 ) ) same (parallel\$3 same key\$2) )  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2006/10/23 12:22 |
| S71 | 0   | S70 @ad<"20020827"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2006/10/23 12:23 |
| S72 | 137 | ((crossbar\$3 near3 switch\$3) same parallel\$3 ) ( ( Encrypt\$5 or encipher\$5 or cipher\$5 or scrambl\$5 or crypto\$6) or (decrypt\$6 or decipher\$5 or descrambl\$5 or crypto\$6 ) ) (parallel\$3 same key\$2) )   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2006/10/23 12:22 |
| S73 | 2   | ((parallel\$3 same key\$2).ti. or (parallel\$3 same key\$2).ab.)<br>((crossbar\$3 near3 switch\$3) same parallel\$3 ) ( ( Encrypt\$5 or encipher\$5 or cipher\$5 or scrambl\$5 or crypto\$6) or (decrypt\$6 or decipher\$5 or descrambl\$5 or crypto\$6 ) ) (parallel\$3 same key\$2) ) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2006/10/23 12:23 |
| S74 | 0   | S73 @ad<"20020827"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2006/10/23 12:24 |
| S75 | 2   | ((parallel\$3 and key\$2).ti. or (parallel\$3 and key\$2).ab.)<br>((crossbar\$3 near3 switch\$3) same parallel\$3 ) ( ( Encrypt\$5 or encipher\$5 or cipher\$5 or scrambl\$5 or crypto\$6) or (decrypt\$6 or decipher\$5 or descrambl\$5 or crypto\$6 ) ) (parallel\$3 same key\$2) )   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2006/10/23 12:24 |

## EAST Search History

|     |   |   |   |     |    |                  |
|-----|---|---|---|-----|----|------------------|
| S76 | 0 | S75 @ad<"20020827"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2006/10/23 12:25 |
| S77 | 3 | ((key\$2).ti. or (key\$2).ab.)<br>((crossbar\$3 near\$3 switch\$3) same<br>parallel\$3 ) ( ( Encrypt\$5 or<br>encipher\$5 or cipher\$5 or scrambl\$5<br>or crypto\$6) or (decrypt\$6 or<br>decipher\$5 or descrambl\$5 or<br>crypto\$6 ) ) (parallel\$3 same key\$2)<br>) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2006/10/23 12:30 |
| S78 | 1 | S77 @ad<"20020827"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2006/10/23 12:30 |
| S79 | 3 | ((key\$2).ti. or (key\$2).ab.)<br>((crossbar\$3 same switch\$3) same<br>parallel\$3 ) ( ( Encrypt\$5 or<br>encipher\$5 or cipher\$5 or scrambl\$5<br>or crypto\$6) or (decrypt\$6 or<br>decipher\$5 or descrambl\$5 or<br>crypto\$6 ) ) (parallel\$3 same key\$2)<br>)    | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2006/10/23 12:30 |
| S80 | 1 | S79 @ad<"20020827"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2006/10/23 12:31 |
| S81 | 3 | ((key\$2).ti. or (key\$2).ab.)<br>((crossbar\$3 same switch\$3) same<br>parallel\$3 ) ( ( Encrypt\$5 or<br>encipher\$5 or cipher\$5 or scrambl\$5<br>or crypto\$6) or (decrypt\$6 or<br>decipher\$5 or descrambl\$5 or<br>crypto\$6 ) ) (parallel\$3 key\$2) )            | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2006/10/23 12:31 |
| S82 | 1 | S81 @ad<"20020827"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2006/10/23 12:32 |



## EAST Search History

|     |    |  |   |     |    |                  |
|-----|----|--|---|-----|----|------------------|
| S83 | 12 | ( (parallel\$3).ti. or (parallel\$3 ).ab.)<br>((crossbar\$3 same switch\$3) same<br>parallel\$3 ) ( ( Encrypt\$5 or<br>encipher\$5 or cipher\$5 or scrambl\$5<br>or crypto\$6) or (decrypt\$6 or<br>decipher\$5 or descrambl\$5 or<br>crypto\$6 ) ) (parallel\$3 key\$2) ) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2006/10/23 12:46 |
| S84 | 8  | S83 @ad<"20020827"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2006/10/23 12:47 |
| S85 | 17 | ( (parallel\$3).ti. or (parallel\$3 ).ab.)<br>((crossbar\$3 same switch\$3) ) ( (<br>(Encrypt\$5 or encipher\$5 or<br>cipher\$5 or scrambl\$5 or crypto\$6)<br>or (decrypt\$6 or decipher\$5 or<br>descrambl\$5 or crypto\$6 ) )<br>(parallel\$3 same key\$2) )            | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2006/10/23 15:02 |
| S86 | 12 | S85 @ad<"20020827"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2006/10/23 12:47 |
| S87 | 11 | (US-20010021253-\$ or<br>US-20020174401-\$).did. or<br>(US-7079752-\$ or US-5802374-\$ or<br>US-6347143-\$ or US-6307940-\$ or<br>US-3784743-\$ or US-5796836-\$ or<br>US-6865643-\$).did. or<br>(US-5237615-\$ or EP-615361-\$).did.                                      | US-PGPUB;<br>USPAT;<br>DERWENT                                    | AND | ON | 2006/10/23 14:51 |
| S88 | 2  | S87 ( (parallel\$3).ti. or (parallel\$3 ).<br>ab.) ((crossbar\$3 same switch\$3) )<br>( ( (Encrypt\$5 or encipher\$5 or<br>cipher\$5 or scrambl\$5 or crypto\$6)<br>or (decrypt\$6 or decipher\$5 or<br>descrambl\$5 or crypto\$6 ) )<br>(parallel\$3 same key\$2) )       | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2006/10/23 15:03 |